UI Bulletin #137b

Subject: Upfitter Junction Block - Accessory Equipment Wiring

Models Years Affected: 2016 - Beyond

Models Affected: Chevrolet Express/GMC Savana Cut-away vans with RPO 9L7

Origination Date: January 12, 2016

Revision Date: November 1, 2017

ADVISORY:

Condition/Concern:

2016 and later Express/Savana cutaway models with RPO 9L7 will have two 30 amp fused power feeds for upfitter use. RPO 9L7 [*Wiring junction block equipment accessory*] provides the following:

- **Two 30A fused and relay switched power wires.** The default factory wiring provides for continuous power if the control switch is 'ON.' [Power does not go 'OFF' with key 'OFF.'] Upfitter equipment loads can be directly attached to these wires. Equipment ground wires are not provided.
- **Two control switch wires** [for relay operation]. Switches are not included.
- **One battery power feed wire 10 A** [B+ for the control switches]
- Easy in-cab access to the harness and connector [located near the Park Brake]. The connector half [with cut/taped leads] can be separated/disconnected for ease of connection/assembly.
- The power source is the Aux Battery. This arrangement protects the cranking battery from run down.
- An additional schematic shows how to accomplish an ignition switched arrangement.

Note:

1. The Aux battery is isolated from the cranking battery during 'key off' and connected [for charging] when the engine is running.
2. Schematics below show both 'standard' continuous and Key Off connection schemes
3. 2016 9L7 power source was routed to the cranking battery. 2017 [and beyond] power source is routed to the Aux battery.

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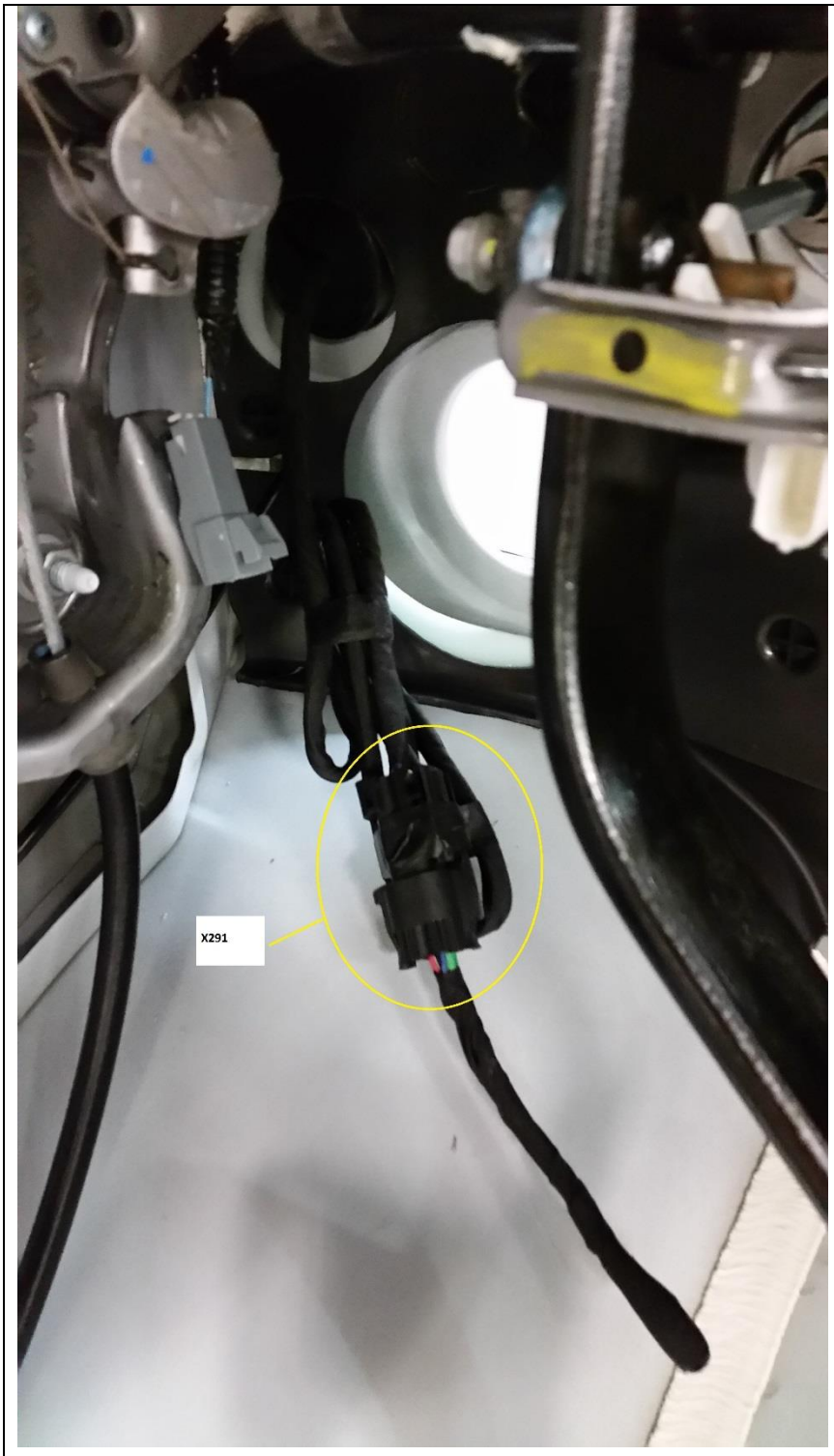
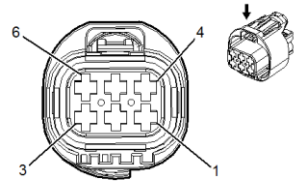
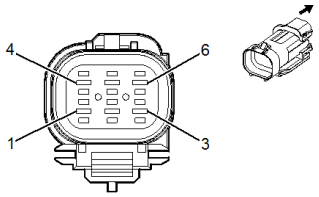
In-Cab View – Near Park Brake



X291 Pin Chart			
Pin #	**Color**	**Ckt #**	**Function**
1	L-BU	6842	Relay 2 coil
2	L-GN	6839	Relay 2 switched power out 30A
3	D-BU	6843	Relay 1 coil
4	D-GN	6840	Relay 1 switched power out 30A
5	RD-BK	102	Battery Hot [for control switches] 10A
6	---	---	Not Used





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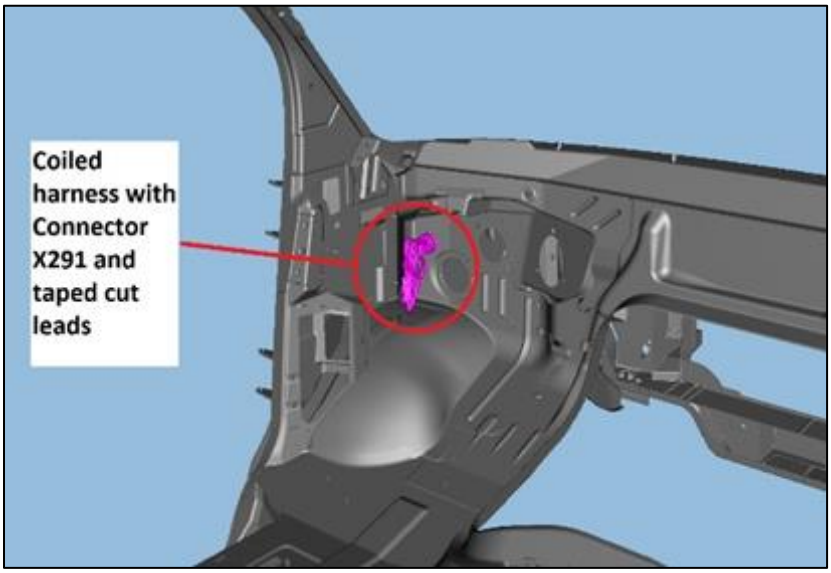
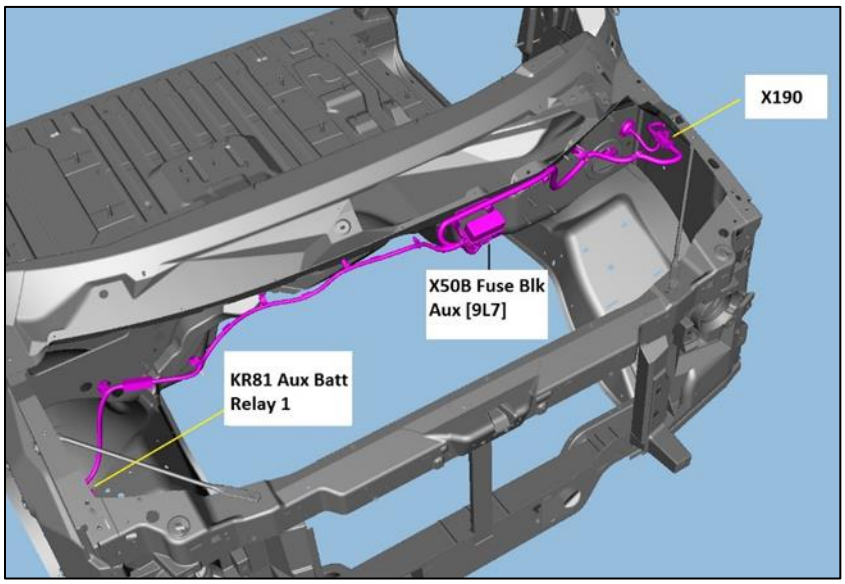
In-Cab View



Under Hood View



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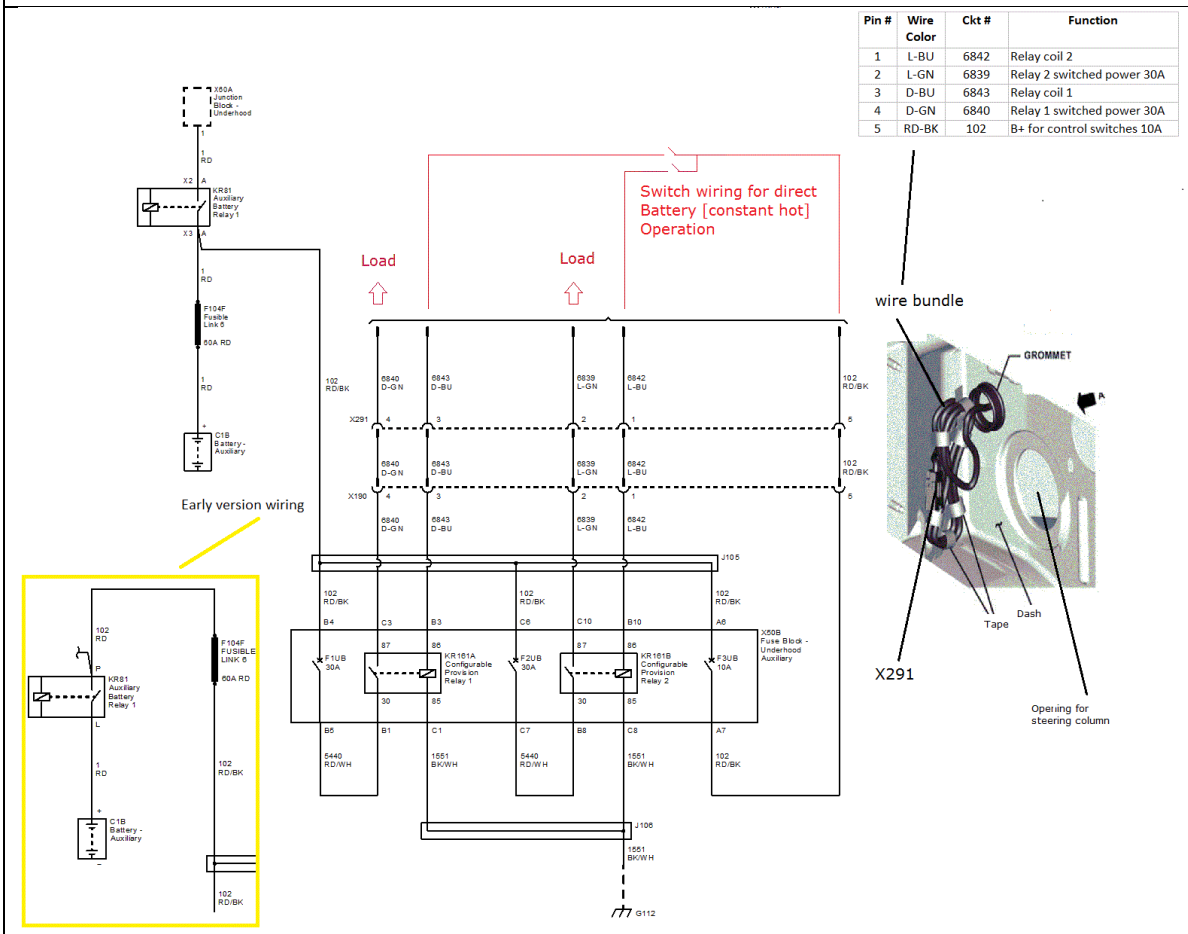
Schematic 'standard continuous'

Items show in red must be added by upfitter/customer


Pin # | Wire Color | Ckt # | Function
1 | L-BU | 6842 | Relay coil 2
2 | L-GN | 6839 | Relay 2 switched power 30A
3 | D-BU | 6843 | Relay coil 1
4 | D-GN | 6840 | Relay 1 switched power 30A
5 | RD-BK | 102 | B+ for control switches 10A
Switch wiring for direct Battery [constant hot] Operation
Load
Load
wire bundle
GROMMET
Tape
Dash
X291
Opening for steering column
Early version wiring
X50A Junction Block - Underhood
KR81 Auxiliary Battery Relay 1
F104F Fusible Link 6
60A RD
C1B Battery - Auxiliary
X291
X190
J105
J106
G112
KR161A Configurable Provision Relay 1
KR161B Configurable Provision Relay 2
F1UB 30A
F2UB 30A
F3UB 10A
X50B Fuse Block - Underhood Auxiliary
F104F FUSIBLE LINK 6

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Schematic – Key Switched

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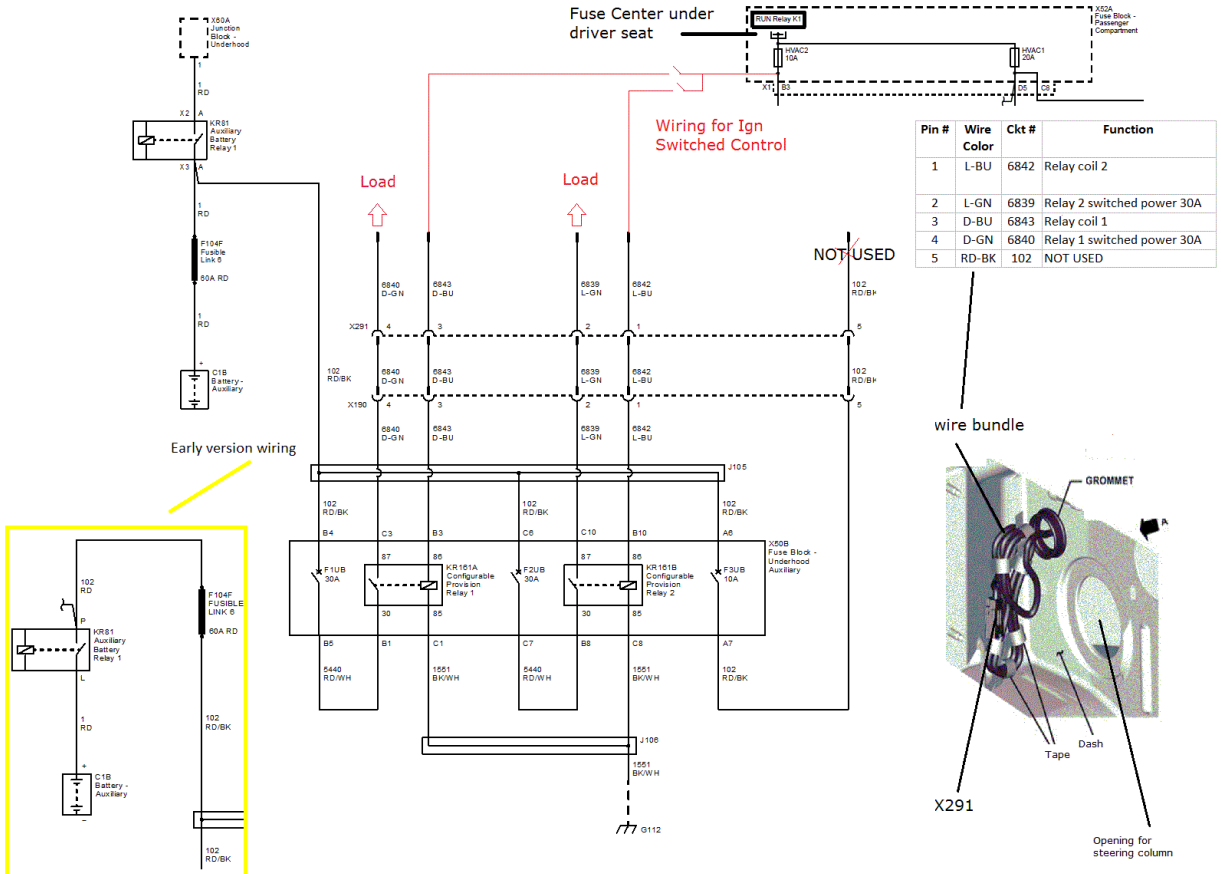

Pin #	Wire Color	Ckt #	Function
1	L-BU	6842	Relay coil 2
2	L-GN	6839	Relay 2 switched power 30A
3	D-BU	6843	Relay coil 1
4	D-GN	6840	Relay 1 switched power 30A
5	RD-BK	102	NOT USED

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